Notebook, N-03-10-00

This notebook covers the period October 1903-November 1904. The book contains notes and drawings by Edison and an unidentified experimenter regarding x-ray experiments. Inserted into the book are several pages of notes pertaining to the x-ray work. Marginal notations indicate that some of this material was recopied into an unidentified "big book." The pages are unnumbered. Approximately 40 pages have been used.

X E-172

N-03-10-00

Radiumic

Radium

Oct 1903 — Mar 1904

200 H. 3.27 O Nothing

~~382 R~~

382 R. 4th on 2nd
5th on 2nd
very very weak
4 on 2nd 132 Burns No 29 Magnetic Iron —
5 on 2nd 132 Burns No 28 Magnetic Iron —

213 S.R. 3.39 O Nothing

Nothing Finding F. 1904

Tiny Titanium dioxide,
Rutile, Brookite Titanite
Etc – Salmiac Ced –

194 H.
4th on 5th strong 35491 – 2 gr. U804 –
4th on 6th very faint
35489 25 mg U804

256 H. 3,48 0 Nothing

5-3 S.R.
5th on 1st strong 4698 – Cy Zr + Cy Didymium
1. on 3rd weak 4694 Cy Zr + Cy Thoria
8 on 4th weak 4806 Cy Thoria Cy Pb
5 on 5th strong 4757 – Cy Rubidium + Titanium
8 on 6th " 4813 Cy Thoria + Cy Selenium
4th on 6th " 4804 Cy Thoria + Cy Cy
3rd " 6th weak 4846 – Cy Yttria + Cy Lanthanum
5th on 6th " 4835 – Cy Yttria + Cy Erbium
7th " 6th " 4861 – Cy Thallium + Cy Cobalt
4th on 5th very weak 4661 – Cy Zr + Cy Hg
Probably more after
Extremely weak

1694 - 4 A.M.
4th on 6th weak 33980 - 50 mlg USO4
5th on 4th " 34990 9 mlg USO4 + 29 Pb Nit

26 5 - H.
5th on 6th very black 37765 - 29 gr USO4
4th " 6th very faint 37763 - 25 mlg USO4

64 S.R. 4.10
5th on 1st strong 2982 - Urani
4th on 5th 2979 = Oxalic CoOH + Carb Cu -
may be a spot only
make out of line

OK big book 5 1 ——

~~Pulled~~ Gross

OK big book

OK big book 9 1 ——

149 H.
3rd on 6th very, very weak
33254 2gr $K_2Mo_2O_7$ 50 mily Ca Borate,

Sag book

215th S.R.
7th on 2nd 20177 724 Mn Chloride
8th on 2nd 20176 Fe acetate formate + Citric
3rd on 3rd 20173 724 Mn Sulphate.
4th on 3rd 20172 Fe pyrophos + Magnesium Citrate
2th on 4th 20166 Iron + Quinine Citrate,
3th on 4th 20165 Iron formate
4th on 4th 20164 Ferromagnesium Citrate, Citric
~~[illegible]~~
6th on 2nd
All quite weak.

168 H
8th on 5th 34442 - 50 mily USO_4
6th on 6th 34363 2gr Ag Sulphate 25 mily $CuSO_4$
2nd on 2nd 33979 25 mily USO_4
all very weak

203 H
3 rd on 4th grey block 35971. 2qr U504
8 th on 5th block 35970 50 mlg "

263 H 0 Nothing

Okbyglook - ——

125 H
2nd on 2nd 31607 2gr Mn Cl 3 mlg Ca Silicate
3rd on 2nd 31603 2gr " 25 " Borate.
4th on 2nd 31604 2gr " 50 "
All very weak

Okbyglook S ——

8 2 S. R
7th on 4th Strong 1854. Uran
3rd on 6 weak 1922 Cerium Cl + Hg Cl

oblong book — S

oblong book — S

22 S.R.

1 on the 1st string 8143 - Chromic Chr Zr Cly
2nd on " 4th Gaily string 7928 Uran
6th on " 5th weak 7996 Uran
5th on the 6th weak 8066 Uran
8th on the 3rd weak 8018 Uran
7th on the 5th very weak 7995
Oxymaphthoic acid Na_2CO_3 + Zr (oh) -

20 S.R.

8th on 5th Gaily string
5523 - Uranium

7 S.R.
Great large
black spot here
the chamber
5th row about the middle
of the plate — weak.

8 S.R.

5th on 1st strong 6513 Uran Cinchoninic Sulph
8th on 1st not so strong 6442, Uran
3rd on 5th weak 6603 Sulphat Bis + Ammi
2nd on 2nd very weak 6533, Uran
No 3 on the 5th row
may be something else
not round.

Ok by book

4
1

Old big book

29 S. R.
7th on 3rd very black 7530 Uran
1st on 4th weak 7555 Uran
4th on 3rd very weak 7532
and half the diameter
Borobenzoic Ac & Na_2CO_3

4 S. R.
6th on 6th strong 6389 - Uran
2nd on 5th fairly strong 6426. Uran
7th on 2nd " 6367 Uran
4th on 5th very weak 6335 Auriln & Ba Chloride
1st on 1st small 6134 phosphotungstic ac & $BaCO_3$
spot, very weak, less
diameter -

Ok by book ?

36 S. R.
1st on 3rd strong 4657 – Uran
3rd on 2nd strong 4652 Uran
6th on 2nd a little stronger 4654 Uran
7th on 3rd very weak 4661
1st on 5th very, very weak 4661.
Uran

~~Zr Cl + Hg~~ bucced up –
Boric a^d Cold Uran + Hg –

32 S. R.
7th on 5th fairly strong 8546 – Johnd + Nitrate + Hg nitrate
3rd on 4th very weak 8521
7th on 2nd very weak 8495
ok by book Xylidin Nitrate –

Johnd + Hg (0) Cl.
Ok by book

Ok by book

81 S. R.
4th or 5th strong 2231 —
Uran Oxyfluoride

250 H. O Nothing

Alkalybook 5 1

209 ½
4th on 3rd 36343 - 2 gr PbFl2 2 gr di Bont
smaller diameter
very weak and
possibly
4th on 1st but 36469
large in diameter
and very, very faint
4th
alkaly book 2 gr Cu Arsenite & 2 gr Potass

18 S. R. Morning

Glibig took

111 H.

5th or 6th or 6th 307670
very male probably
plate shifted

2 gr di phos + 3 mig agcl

131 H. Morning

old cigarbox ?

balled Uranium

66 S. R.

8th on 1st Strong 2706, ~~with HF~~ + NH_4OH + H_2O

3rd on 6th weak 2723. ~~and HF + $CoCl_2$~~

2nd on 4th very, very weak
2736 HF acid + $ZnCl_2$ + $CoCl_2$

75 S. R.

6th on 2nd 1253 — Uranol-
very large diameter
black bluish center
very fuculiar

Cd. Cyanide Thorium Cy. ←
Casein Cy. and Cy of Al. ←
Ag. Cy " Thorium Cy. ←
Thorium and Thorium Cy ←

36427 2 g. Cu Arsenate 2 g U SO_4
36423 2 g. Cu Arsenate 3 mg U SO_4 ←
2 g. Cu Arsenate 50 mg U SO_4 ←
2 g. Pb. Fluoride 2 g Trium Phos. ←

2 g Ba Nitrate 50 mg. U SO_4 ←
2 g Ba Nitrate 2 g U SO_4 ←
2 g Ba Nitrate 25 mg U SO_4 ←
2 g Ba Nitrate 1 mg Sulphur ←

35 S.R.

- 1st on 6th Row Weak 4809
- 5th on 4th " " 4805.
- 5th on 3rd " " 4804
- 5th on 1st " Black spot small diameter No 4803

211 H

- 1st on 6th row very black 36423 36427
- 6th on 6th " weak 36426
- 3rd on 1st " very very weak 36391
  6th on 6th row is only weak by confusion with the 1st on the 6th row

198 H

- 3rd on 1st row weak 35646
- 3rd on 3rd " very very black large diameter 35647
- 1st on 4th row weak 35645
- 4th on 6th row very very weak 35686

2 g Cd. Bromid 50 mg U SO_4	←	3rd on 1st row weak 32204
" " " 2S " " "	←	6th on 1st " very weak 32203
" " " 2 g " " "	←	2nd on 2nd " very black big 32205
" K " 50 mg " "	←	8th on 3rd " weak 32060
" K " 2 g " "	←	4th on 5th " very big black 32061

134 H

Cerium Oxysulfid	←	4th on 1st row black but not big 20140
Lithium Formate	←	7th on 1st row weak 20137

218 S.R.

Boric Acid Carbonates of U and Z	←	4th on 3rd row black but not large 46556
Cyanides of U and Co.	←	5th on 3rd " weak 46066

46 S.R.

Oxynaphtoic Acid Na_2CO_3 + Pb O	←	1st on 3rd row weak 7991
" " " " + Sn O	←	5th on 3rd " " 7992
M. Phosphoric Acid $(NH_4)_2CO_3$ + U(OH) Na	←	7th on 5th " " 5313

49 S.R.

		30 S.R.
Nitrates of Na & U.	←	2nd on 5th row big black spot. 4336
Permolybdic Nitrate & U. Nitrate	←	7th on 4th " very big black spot. 4123
U Cyanide & Hg. Cyanide	←	7th on 5th " weak 4068
K Cyanide & U. Nitrate	←	8th on 5th " very weak 4034

There are a number of black spots on the plate, other than these, which have not been put down, These are probably flurescing from the big black spots

		87 S.R.
Sulpho-carbolic acid + K_2CO_3 + UNO_3	←	7th on 3rd row big black spot. 2543X
Sulpho-carbolic Acid + K_2CO_3 + UNO_3	←	8th on 3rd " weak 2543
Propionic acid + Hg	←	2nd on 6th " black spot rather larger 2520a
		54 S.R.
Tra chlor-phtalic Acid + UCO_3	←	2nd on 6th row big black spot 6076
Oxy-naphtoic Acid + UCO_3	←	7th on 6th " very weak 6026
		76 S.R.
Cu Cyanide + UCl_4	←	2nd on 6th row big black spot 1716

	264 H
2 g Pb. arsenate 50 mg USO_4 ←	5th on 6th row black spot rather weak small but good normal size 37764
	96 S.R.
Boric Acid Carbonates of U & Sb. ←	2nd on 1st row a little weak 4665
" " Carbonate of U. ←	3rd on 1st row larger blacker 45&2
P-Tolnidin Oxalate and U Oxalate ←	6th on 4th row big black spot 5941
	57 S.R.
Nitrates of Na & U. ←	2nd on 6th very large spot rather black 3258
	177 H
2g Li Sulphate 25 mg. USO_4 ←	3rd on 2nd row very very weak 34543
" " " 9 mg " " ←	7th on 4th " not so weak 34341
2g. Sm. Chromate 2g USO_4 ←	6th on 6th " Big black spot 34641

2 g. Na. Cl. & 2 g. U SO_4	←	6th on 4th row very big black spot 30424
" K Chloride & 25 mg. U SO_4	←	4th on 1st " weak 30416
" Sr " & 2 g " "	←	7th on 1st " big black spot 30448
" Cd Bromid & 1 mg. Ag Chloride	←	2nd on 2nd " weak 30453
" Sr Chloride & 2 g. U SO_4	←	7th on 2nd " big black spot. 30436
" Mn " & " " "	←	8th on 2nd " " " " 30454
" Sn " & 25 mg. " "	←	4th on 3rd " small " " 30446
" Li " & 2 g " "	←	7th on 3rd " very " " not large 30442
" Na " & 50 mg " "	←	8th " 3rd " weak 30423
304134 2 g Sr Cl 25 mg U SO_4	←	1st 2nd 4th " " 30434 – 30464
304164 " Pb Cl. " " " "	←	4th on 6th " " 30432
30432 2 g. Sr Cl 3 mg U SO_4	←	

10 R H

2 g. K. Sulphate 25 mg. U SO_4	←	3rd on 5th row a little weak 33565

16 I H

2 g. Pb. Nitrate 50 mg U SO_4	←	1st on 3rd row a little weak 34992
" " " 25 " " "	←	4th on 4th " " " " 34991
" " " 2 g. " "	←	4th on 6th " very big black spot 34993

17 I H

		261 H
2 g Ba Fluoride 2 g U SO_4	←	4th on 1st row very big black spot. 37681
		238 S.R.
Uranium Acetate	←	7th on 1st row Extremly large black spot ~ 21217
		91 S.R.
acid Hydro-fluric & Na_2CO_3 & $U(NH_4)_4$	←	3rd on 1st row big black spot 2684
Oxalic Acid NH_4OH + UO_3	←	8th on 1st " weak 2860
Oxalic Acid $MnCO_3$ + UCO_3	←	2nd on 3rd " big black spot 2894
" " Si_2CO_3 + U O_3	←	2nd on 4th " " " 2879
" " K_2CO_3 & " "	←	2nd on 6th " " " " 2663
" " Na_2CO_3 & " "	←	4th on 6th " " " " 2661
" " K_2CO_3 & Cd Cl_2 + UO_3	←	4th on 4th " small " " 2922
		185 H
2 g K Chromate 2 g U SO_4	←	6th on 1st row big black spot. 35245
2 g K Chromate 25 mg U SO_4	←	6th on 2nd " weak spot 35243

Oxalic Acid $UO_3 K_2CO_3 + CaCl_2$ ←
" " UO_3 " " $Al_2 Cl_6$ ←
" " UO_3 $Zn CO_3$ ←
" " UO_3 $K_2 CO_3$ $Mg Cl_2$ ←
Bales Lod 5 ←
Ba Oxalic ←

63 S.R.

2nd on 1st row black spot. 2922
1st on 5th " " " 2969
5th on 5th " " " 2994
3rd on 6th " small " " 2956
5th on 6th " " " " 826
7th on 6th " big " " 990

297 Trabolt
Light struck to be taken over.

179 H
attached by Acetic Acid fumes from the Stratina used in gluing Stout, Salicylate on paper.

392 R Nothing
390 R Nothing
395 R "
235 S.R. "
146 H "
147 H "
142 H "
178 H " over

185 H Nothing
212 H "
266 H "

Developed 26 February 1904

The following gave nothing

309 R
310 R
321 R
305 R
322 R
317 R
318 R
319 R
313 R
312 R
315 R
314 R
302 R
300 R
389 R

Burns
should be 1509 = 2064

1609 = Burns # 1895

1510 = " # 1896

1518 = " # 1902

830 Monzile sand Cabinet

1555 Burns 2001 = Lalcose for Stockbridge
E Barnard

1345 Burns 1719 =

319 R

5th on 3rd row black spot.
6th on 3rd row a little weak
6th on 4th row about the same
Indications of other spots
all quite weak except 5th on 3rd row

304 R

6th on 2nd row fairly black spot.

320 R.

3rd on 3rd row good black spot.

316 R

1st on 1st row weak and doubtful

980 Labradorite Labrador ← 4th on 3rd row fairly black spot.

1121 1510 Burns =
1122 1510A " = ← 1-2 on 3rd row look like spots

2.7 = Hydr. Chloride of Iron dried. ← 3rd on 4th row sure
3.7 = Bismuth Trichloride ← 5th on 5th row very peculiar, white with a ring around it 1" in diam. quite clear and sharply defined this is very strange and should be investigated!

307 R

3.11
A lot of rings on right hand end. May be Spots

2.97 Trabolt.

95 = Hg Oxid Ammonia water, Hydrofluric Acid

92 = Fe and Sulphocarbolic Acid

93 = Hg Oxid Ammonia water, Hydrofluric Acid

94 = Na Nitrate 1yr. Sti nitrate cryst.

681 = Aw Ba CO_3 (giv. Sm $(OH)_2$

393 Snahol

7th on 6th row very black spot, round.

456 on 6th row great big black blotch. Can not say if it is a number of black spots, or not. Seem to be other spots, rings.

No doubt about 7th on 6th row.

301 R

1st on second row seems to be a ring

303 R

Edison Ores

Spots very weak, may be rings there may be radium all through, It should be concentrated. Whole plate spots.

4.10
4.20
4.30
4.50
5.10
5.20

5.30

5.50
15.40

[ITEM FOUND IN BOOK]

301 R

1st on second row
seems to be a ring

303 R

Edison Ceres.
Nothing
spots very weak may
be rings they may be
radium allthough it
should be concentrated
whole plate spots

[ITEM FOUND IN BOOK]

393 ~~R~~ T

7th on with very Black spot Round
4-5-6 great big big black
blotch can't say if it is a
number of spots or not
to be like spots rings
no doubt about 7 on 6 Ukrain

389 R

nothing

[ITEM FOUND IN BOOK]

302 R
nothing

300 R
Nothing

[ITEM FOUND IN BOOK]

297 Trabolt.

3 on 4th Row shine

5 on 5th " very peculiar

the spot shows white with

a ring around it 1" diam

quite clear and sharply

defined this is very strange and

should be investigated

$InCl_2$

through double salt NaCl and

AgCl Nothing

[ITEM FOUND IN BOOK]

319R

5th on 3rd row
6th on 3rd " a little weaker
6th on 4th " about the same
Indication of other spots
all quite weak except
5th on 3rd row

321R

Nothing

[ITEM FOUND IN BOOK]

304R
6 on 2nd row fairly
black spot,

305R
nothing

[ITEM FOUND IN BOOK]

320 R

3rd on 3rd now good
black spot.

322 R

nothing

[ITEM FOUND IN BOOK]

318R
Nothing

319R

[ITEM FOUND IN BOOK]

317.R
nothing

316R
~~[illegible]~~
11st very weak
and doubtful

[ITEM FOUND IN BOOK]

307 R
4 on 3rd row fairly
black spot.

309 R
nothing

[ITEM FOUND IN BOOK]

310 R
nothing

311 R
A lot of Rings on R Hand
end may be spots.
1-2 on 3rd ~~[illegible]~~ look
like spots.

[ITEM FOUND IN BOOK]

313R
Nothing

312R
nothing

[ITEM FOUND IN BOOK]

315 R
Nothing

314 R
Nothing